

1 determining a second velocity vector " V_y " for migration of fluid in the region of
2 interest, the second velocity vector comprising attributes of speed and direction of
3 flow of fluid in a second direction in the region of interest;

4 extrapolating the velocity vectors to identify the fluid accumulation location;
5 and

6 wherein the first and second velocity vectors are primarily functions of
7 supplementary pressure " dP " in the region of interest, the permeability " c " of the region
8 of interest, and the viscosity " u " of the fluid in the region of interest.

9
10 (Continued on next page.)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25